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AVICULTURAL MAGAZINE



SPECIES INDEX
Part 1

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THE AVICULTURAL SOCIETY

The Avicultural Society was founded in 1894 for the study of British and foreign birds in the wild and in captivity. The Society is international in character, having members throughout the world.

Membership subscription rates per annum for 2014: British Isles £21.00: Overseas £24.00 (plus £6.00 for airmail). (UK funds please). Full-time students £12, Overseas £15 (please state course attended). The subscription is due on **1st January of each year** and those joining the Society later in the year will receive back numbers of the current volume of the AVICULTURAL MAGAZINE.

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The AVICULTURAL MAGAZINE welcomes articles and news items from both members and non-members (no payment is made). These can be about any aspect of aviculture, conservation or natural history concerning non-domesticated bird species that is likely to be of interest to aviculturists. Articles submitted for publication should preferably not have been published elsewhere, and should ideally be written in English, though translation is possible. Scientific as well as vernacular bird names should be given, and references cited in the text should be listed at the end of the article. Material can be sent as an email attachment to editor@avisoc.co.uk and can be accepted in most common file formats. Files on disk and typed or handwritten manuscripts are also accepted. Line drawings, black and white or colour photographs can be used to illustrate articles and should be clearly captioned. Tables and graphs submitted will be used whenever possible. Graphs should ideally be accompanied by the relevant source data.

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COVER PHOTO: Black-bellied Whistling Duck *Dendrocygna autumnalis* by Gregory Guida.

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2014

The Avicultural Society

FOR THE STUDY OF BRITISH AND FOREIGN BIRDS
IN THE WILD AND CAPTIVITY

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AVICULTURAL MAGAZINE

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FROM THE CHAIRMAN

This multiple issue completes 120 years of the Avicultural Magazine. To mark this milestone, the Avicultural Society is publishing an index for the whole of this period. The magazine itself is of course a fantastic resource, packed with information on the behaviour and husbandry of a wide range of birds, as well as documenting the history and development of aviculture over more than a century. The index is a hugely useful resource in its own right, providing as it does the key to the riches contained within the magazine.

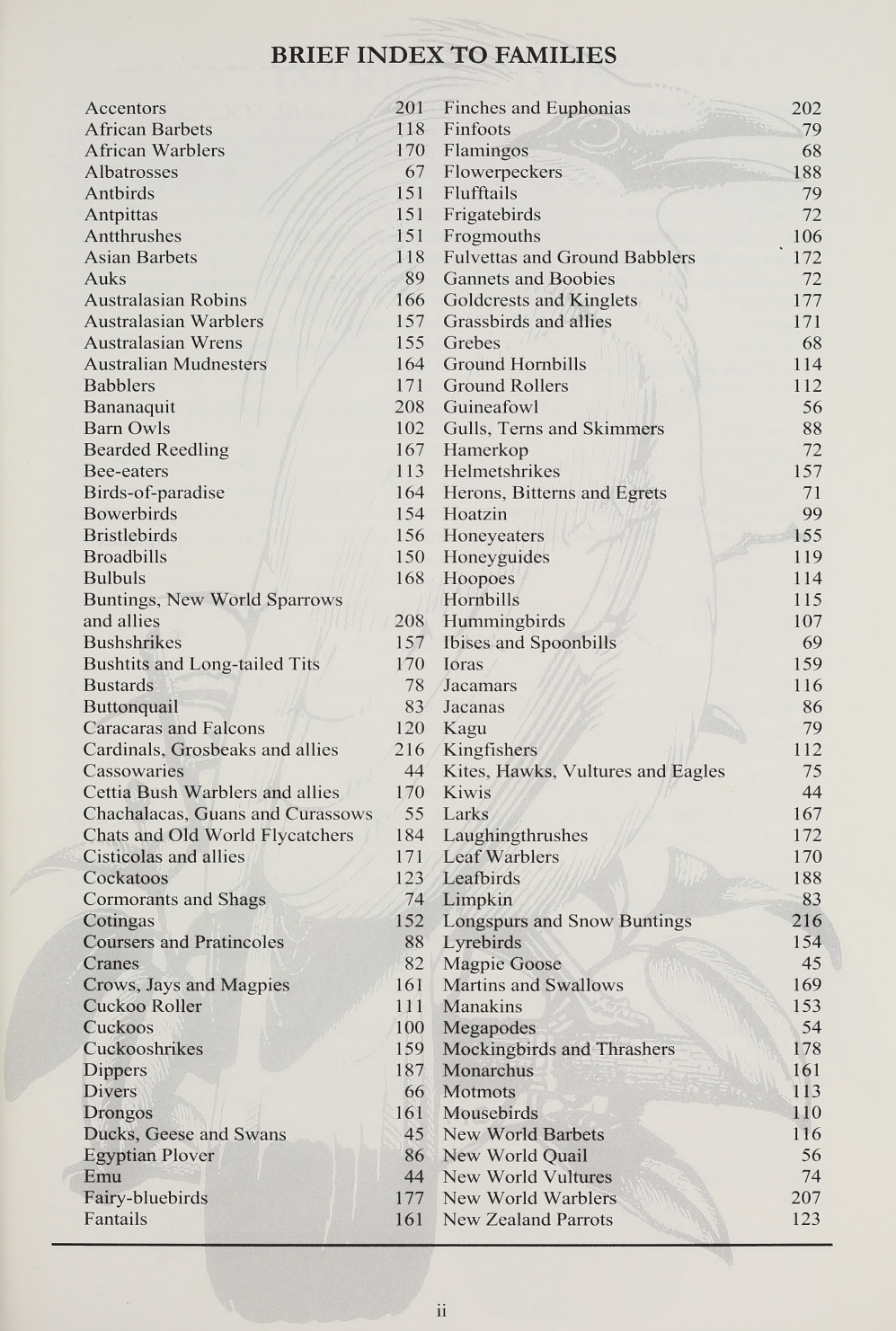
The index has three parts, but the volume of material available in the magazine is such that only the first two – the species index, which is the largest, and a brief family index which acts as an aid to navigating the species index – are included here. The subject index will appear separately as part of volume 121.

It should now be easy to find articles on species of interest. If these are not contained in your own collection of magazines, they may be available from our stock of back issues; to find out simply contact the treasurer. Alternatively, the magazine from 1894-1922 can be read online at the Biodiversity Heritage Library (link on AS website) and library copies are available at a number of institutions – The Zoological Society of London holds a full set at Regent's Park and The Natural History Museum also holds a full set at Tring and 1894-1983 at South Kensington. There are links on our website to the visiting arrangements and to NHM's digitised copy service. We have agreed to deposit a set with the National Museum of Scotland in Edinburgh, and will let you know when these are available. A number of other zoos, museums and libraries around the world subscribe or have subscribed, in some cases through agencies so we are not always aware of their locations or visiting arrangements. We would be happy to publish details of other sets available for reference – we would like to see the Avicultural Magazine used as widely as possible.

The index will also be made available on the website, and will be updated online annually. I hope having this printed copy in your hands will open up or reopen routes into the fascinating treasure trove that is the Avicultural Magazine.

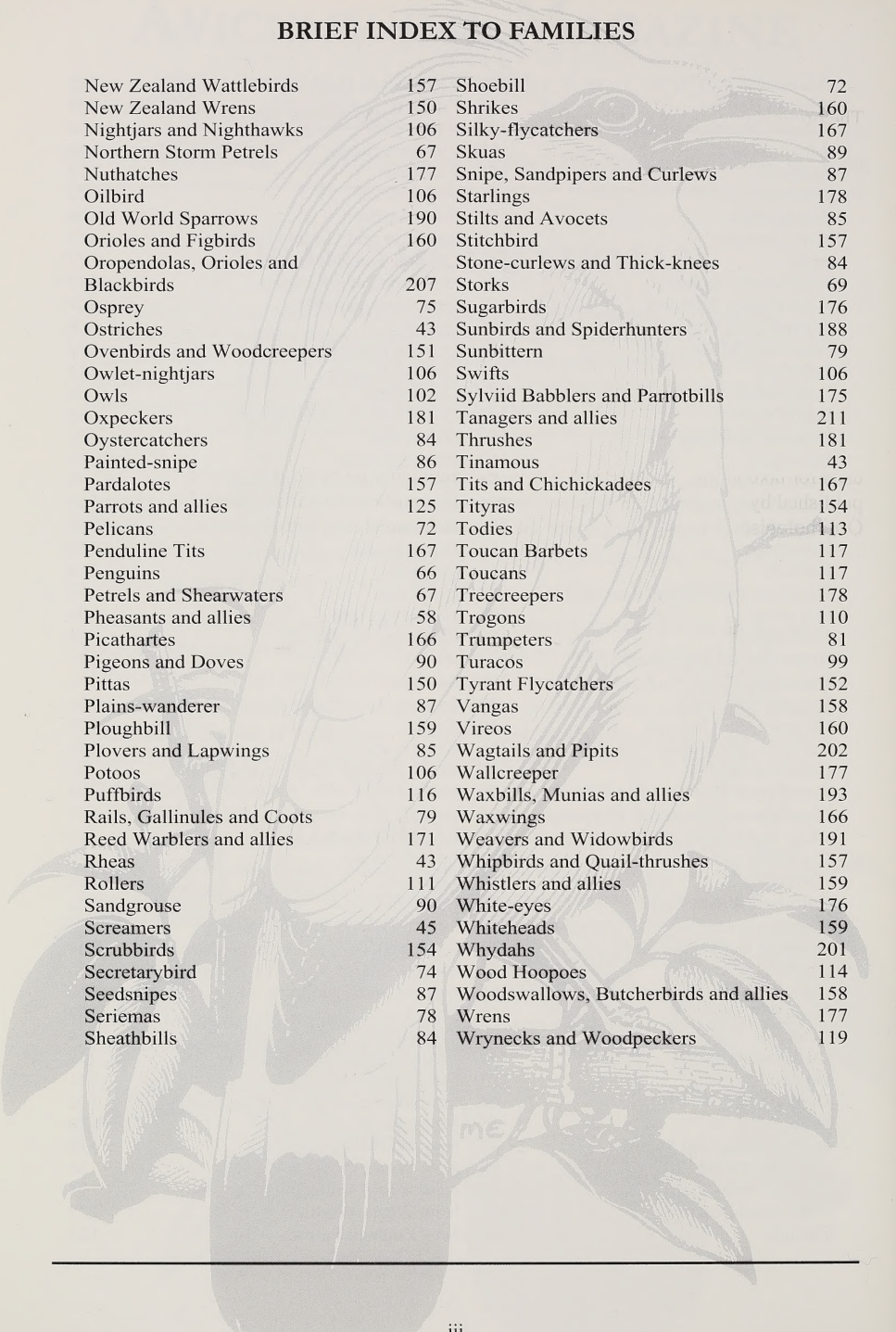
Nigel Hewston

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INTRODUCTION

The original concept of a comprehensive index to the Avicultural Magazine was first mooted in the mid 1970s. The initial index covering up to 1981 took three years to complete but was never published owing to the prohibitive costs of producing it as a single volume. During the intervening years, publishing costs have been reduced but more importantly the internet has become widely available and it was decided to use this medium initially as a means of making the index generally available, both cheaply and quickly, supplemented now by this publication covering the whole period from 1894 to 2014.

EXPLANATION OF METHODS USED

With the advent of the internet and the scope it offers, a single reference source is now used for taxonomic guidance and that is the continually up dated IOC World Bird List published by the International Ornithological Committee (now International Ornithologists' Union). The aim of this list is to create a standard format.

While many names, both common and scientific, have been brought in line, subspecies which are not normally given a common name are still credited with the UK avicultural name in general use.

In the SPECIES INDEX all species are entered systematically under family headings. These are only split by group or genus entries e.g. Tanagers, *Chloropsis* etc, otherwise they follow on. The SUBJECT INDEX entries are listed alphabetically.

LAYOUT OF SPECIES ENTRIES

Data entry is laid out alphabetically but starts with un-named general references. Each related reference is split using ; and ends using . before the next heading starts.

Black and white illustrations and line drawings are denoted with b/w following the reference while a B/w denotes a black and white illustration without accompanying text. Colour plates are noted using * after a reference denotes an accompanying plate while * before a reference advises of a colour plate without text. The one-off newsletter is denoted by N/L while ibc indicates inside back cover.

In all individual species references the entire page range is given while in general headings and the SUBJECT INDEX heading entries are only given the start page.

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At Berlin Zoo 1964 29-30. At Lonesome Lake, Canada 1951 185b/w. Bred 1959 181; 1965 21; 1966 30; 1972 148. Fate of 1944 127-132b/w; 1947 215-216. Note 1927 219b/w. Paying a Royal visit 1951 186-187b/w. Wild 1969 147.

Tundra Swan *Cygnus columbianus columbianus*

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Bewick's Swan *Cygnus columbianus bewickii*

Bred at Bently 1972 46-47. Breeding at: Flamingo Gardens 2011 11-12*; Slimbridge 1956 27-28; Woburn 1933 100. Longevity, breeding at twenty-six years old 1975 54.

Whooper Swan *Cygnus cygnus*

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About ducks 1941 147. Diving ducks 1928 125b/w. Ducks 1928 1b/w*. Ducks and delinquency 1946 198. Endurances of young ducks 1913 201. Hand-rearing fresh water ducklings 1942 98; 1944 80. Hunting duck eggs on Lake Manitoba 1913 351. Indian ducks 1947 209. Intelligence of ducks 1943 64. Mallards 1937 167. Of New Zealand 1940 142; 1942 86. On keeping oil polluted ducks in captivity 1941 24. Our breeding ducks 1896 160. Perching ducks 1943 60. Points in the rearing of ducks 1940 158. Rare ducks in St. Jame's Park 1931 177. Rearing of young ducks 1913 305b/w. Shovelers 1940 137. Smaller waterfowl 1912 289. Surface-feeding ducks 1928 62*. Teal 1907 315*. Teal and Shovelers 1928 86b/w*. Wild ducks from incubator 1914 64,99,146. HYBRIDS: 1935 78. Brazilian Teal x Carolina Duck 1962 165. Cape Teal x Chestnut Teal 1979 164. Chestnut Teal x Falcated Teal 1931 209. Chiloe Wigeon x Common Mallard 1953 26. Chiloe Wigeon x Eurasian Wigeon 1919 15b/w. Common Goldeneye x Smew 1924 143. Common Mallard x Indian Spotbill 1948 195. Eurasian Wigeon x American Wigeon 1932 158. Falcated Teal x Chestnut Teal 1932 48. Falcated Teal x Gadwall 1933 103. Falcated Teal x Shoveler 1932 48. Goosander x Eider 2008 123-128*. Hottentot Teal x Carolina Duck 1936 229. Philippine Duck x Australian Black Duck 1933 103. Red-billed Pintail x Cape Teal 1968 104. Red-crested Pochard x Australian Black Duck 1933 103. Rosybill x Common Mallard 1932 158. White-cheeked Pintail x Chilean Teal 1932 158.

Freckled Duck *Stictonetta naevosa*

1965 151b/w; 1980 45; 1988 176. Bred 1993 103. Breeding 1994 52. First captive breeding 1987 111. Five pairs to the USA 1996 94. Wild census 1983 236.

Blue Duck *Hymenolaimus melacorhynchos*

1933 369-370; 1942 89; 1957 164; 1985 51-52b/w; 1991 158-159; 1993 48. Nesting in captivity 1904 333 (Bred). Note 1947 208-209.

Falkland Steamer Duck *Tachyeres brachypterus*

At London Zoo 1927 245-246b/w. At Slimbridge 1995 13-17*. For the Wildfowl Trust 1952 222,225b/w.

Torrent Duck *Merganetta armata*

1939 262-263 (Peruvian Torrent Duck *M. a. leucogenis*). Incident concerning 1953 134 (Peruvian Torrent Duck *M. a. leucogenis*). Raised from wild eggs 1971 38.

Spur-winged Goose *Plectropterus gambensis*

Bred 1933 362-363b/w; 1961 199.

Comb Duck *Sarkidiornis sylvicola*

Bred 1932 47; 1939 349. Free-winged 1973 72-73. In captivity 1967 197-198b/w. Reared by fosters 1934 30.

Knob-billed Duck *Sarkidiornis melanotos*

Bred 1957 61

Blue-winged Goose *Cyanochen cyanoptera*

1925 169-171. Bred 1927 224. Breeding Record 1933 101. Note 1932 203-204.

Egyptian Goose *Alopochen aegyptiaca*

Bred 1964 74. Nested in church tower 1967 113. Problem with 2007 72.

Orinoco Goose *Neochen jubata*

Bred 1909 38; 1947 18. Breeding Record 1934 320. Note 1932 204b/w.

Andean Goose *Chloephaga melanoptera*

1911 141b/w; 1921 46-47; 1932 202-203; 1939 259-260b/w. Breeding 1933 434-437b/w.

Upland Goose *Chloephaga picta*

Antarctic geese 1913 144-149. Bred 1932 47. Female allowing eggs to cool 1934 191. Goslings dying 1917 291.

Kelp Goose *Chloephaga hybrida*

1942 101-102. Bred 1961 191; 1964 179; 1992 196. Colour of Falkland Island geese and their food 1924 86-87; 1939 302-303. For the Wildfowl Trust 1952 220-222.

Ashy-headed Goose *Chloephaga poliocephala*

1932 203b/w.

Ruddy-headed Goose *Chloephaga rubidiceps*

1913 242-244,244-245; 1915 357*; 1932 203b/w.

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1928 60.

HYBRIDS: Common Shelduck x Egyptian Goose 1933 102. Paradise Shelduck x Ruddy Shelduck 1935 118. Radjah Shelduck x Ruddy Shelduck 1932 8.

Common Shelduck *Tadorna tadorna*

1902 251-255; 1914 161-162b/w. Breeding 1902 255-256. Free-winged 1973 72. Friendly ducklings 1933 398. Note 1962 178.

Radjah Shelduck *Tadorna radjah*

Bred 1946 195. Early Breeding Record 1947 190. Homosexual pairings 1972 24. Longevity, twenty-five years 1972 24. Note 1932 206.

Ruddy Shelduck *Tadorna ferruginea*

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- South African Shelduck** *Tadorna cana*
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- Australian Shelduck** *Tadorna tadornoides*
Behaviour 1939 170,201,202 (Bred). Bred 1939 159-161. Note 1941 137.
- Paradise Shelduck** *Tadorna variegata*
1911 157-158b/w; 1934 233-235; 1942 88. Bred 1968 70. Eclipse plumage of female 1910 61. Notes 1932 206; 1941 136b/w.
- Crested Shelduck** *Tadorna cristata*
Sighted 1984 178.
- Pink-eared Duck** *Malacorhynchus membranaceus*
1965 151b/w; 1980 45. Bred 1981 115-116. Rearing 1980 82-83b/w.
- Salvadori's Teal** *Salvadorina waigiuiensis*
Breeding in New Guinea 1956 89; 1957 36.
- Muscovy Duck** *Cairina moschata*
Spontaneous variations 1913 82-88,106-108. B/w 1941 136.
- White-winged Wood Duck** *Asarcornis scutulata*
1911 44; 1941 136-137b/w,143-144; 1956 58; 1972 22-23. At Slimbridge 1973 130; 1975 153-154b/w. Bred 1971 176. Conserving 1985 161. Double-brooded 1975 54. New site found 1996 42. Returned to Thailand 1985 174.
- Hartlaub's Duck** *Pteronetta hartlaubii*
1951 156; 1972 22b/w. At Slimbridge 1951 197; 1955 29. Bred 1960 70b/w; 1976 113. Breeding 1991 9-12b/w.
- Carolina Duck** *Aix sponsa*
1904 89-94*,139-140. Behaviour 1953 28-34. Bred at Knowsley 1947 18. Disposition 1955 114-117. First importation 1935 162. Free-winged 1973 71. *1945 85.
HYBRIDS: 1899 73; 1955 30.
- Mandarin Duck** *Aix galericulata*
1929 152-153. At liberty 1912 122; 1931 58; 1959 93; 1966 141; 1973 70-71. Behaviour 1953 80-88b/w. Disposition 1955 114-117. Free-flying in Scotland 1961 193. In UK 2002 52-58. In-breeding 1982 145-148. Introduced 1987 229-230. Released (Some released in London shot in Hungary) 1931 187-188. Self-reared 1961 60-61. Wild status 1987 175. *1928 1; *1945 85; *1946 167.
HYBRIDS: 1899 73; 1922 40; 1960 5-8; 1969 34-35.
- Maned Goose** *Chenonetta jubata*
1917 157-159b/w; 1917 210-211 (Bred); 1932 204b/w. Breeding 1956 158-159; 1958 175-176. Free-winged 1973 71.
- African Pygmy Goose** *Nettapus auritus*
Bred 1975 114; 1989 105; 1995 43b/w; 1934 102. Breeding 1984 71-73b/w. Imported 1930 194. B/w 1934 102.
- Cotton Pygmy Goose** *Nettapus coromandelianus*
1901 128-132; 1914 278-279. Breeding 1984 67-70b/w. Imported 1914 258. In captivity 1915 269-270. Note 1941 41. Wild in China 1928 167-168.
- Brazilian Teal** *Amazonetta brasiliensis*
Fidelity of 1932 168.
- Ringed Teal** *Callonetta leucophrys*
1922 40-41. Bred 1914 334; 1915 250-251; 1956 57.
- Andean Crested Duck** *Lophonetta specularioides alticola*
1939 260; 1948 196-199b/w (Bred).
- Patagonian Crested Duck** *Anas specularioides specularioides*
Bred 1965 21-22.
- Bronze-winged Duck** *Speculanus specularis*
Bred 1965 22-23b/w; 1980 53.

- Cape Teal** *Anas capensis*
Breeding 1940 151-153. Four broods in a year 1969 21. Note 1946 194-195.
- Common Gadwall** *Anas strepera strepera*
Behaviour 1952 179-184b/w.
- Coues's Gadwall** *Anas strepera couesi*
1943 67-68.
- Falcated Duck** *Anas falcata*
1901 133. Bred 1917 249-250; 1951 153*.
HYBRIDS: Bred but young were hybrids 1917 96,240.
- Chiloe Wigeon** *Anas sibilatrix*
Behaviour 1953 24-26b/w. *1928 62.
- Eurasian Wigeon** *Anas penelope*
1942 61-63*. Behaviour 1953 24-26b/w.
- American Wigeon** *Anas americana*
Bred 1907 203. Longevity, twenty-two years old 1928 22.
- African Black Duck** *Anas sparsa*
Bred 1955 29. Display 1966 157.
- Common Mallard** *Anas platyrhynchos platyrhynchos*
Behaviour 1951 164-182b/w. Breeding whites from sports 1928 166-168,200-201.
Mallards 1937 167. Spontaneous variations 1913 82-88,106-108. Unusual nesting sites 1909 243-244b/w; 1913 82,86; 1997 47.
- Greenland Mallard** *Anas platyrhynchos comboschas*
Bred 1965 170.
- Florida Duck** *Anas fulvigula*
Bred 1955 29.
- Hawaiian Duck** *Anas wyvilliana*
1943 69; 1951 42-43; 1951 181. At Litchfield 1959 172-173 (Bred). Bred 1955 29; 1960 69.
- Laysan Duck** *Anas laysanensis*
1943 68b/w. Population decline 1994 226. Recent history and future 1985 76-78.
- Philippine Duck** *Anas luzonica*
1952 21-22b/w; 1953 11-12 (Bred). Hatched 1957 197.
- New Zealand Grey Duck** *Anas superciliosa superciliosa*
1934 235-236; 1940 150-151b/w; 1943 120. Bred 1960 69.
- Pelew Island Grey Duck** *Anas superciliosa pelewensis*
At Clères 1963 252. Bred 1965 171. USA breeding programme 1997 142.
- Yellow-billed Duck** *Anas undulata*
Longevity, nearly fifty years old 1966 140 (Corrected to twenty-eight years 175).
- Meller's Duck** *Anas melleri*
At Jersey Zoo 1994 109. Behaviour 1952 8-9. Bred 1931 349; 1932 8,47. Early Breeding Record 1933 103.
- Blue-winged Teal** *Anas discors*
Notes on 1915 249-251b/w.
- Cinnamon Teal** *Anas cyanoptera*
1911 225-226*; 1914 261-265. Bred 1955 29. Rearing 1951 188-189. *1928 88.
- Cape Shoveler** *Anas smithii*
Bred 1955 30. Note 1940 138.
- Red Shoveler** *Anas platalea*
Breeding Record 1934 321. Note 1940 137.
- Australasian Shoveler** *Anas rhynchotis rhynchotis*
Note 1940 138.
- New Zealand Shoveler** *Anas rhynchotis variegata*
1942 86-87. Bred 1936 5.

- Northern Shoveler** *Anas clypeata*
Behaviour 1952 86-89. Note 1940 137. Shovelers 1940 137.
- Madagascar Teal** *Anas bernieri*
At Clères 1929 26; 1936 228. At Jersey Zoo 1994 109. Decline in wild population 1993 217.
- Sunda Teal** *Anas gibberifrons*
1907 315*. Bred 1956 196 (Australasian Grey Teal *A. g. gracilis*).
- Chestnut Teal** *Anas castanea*
Behaviour 1952 89-94b/w. Bred 1939 87.
- Flightless Teal** *Anas aucklandica*
1940 147-148; 1985 50.
- Campbell Island Teal** *Anas nesiotis*
1985 50; 1993 51.
- Brown Teal** *Anas chlorotis*
1940 142-147b/w; 1985 49-50. Bred 1961 61-62b/w.
- White-cheeked Pintail** *Anas bahamensis*
Behaviour 1952 63-67b/w.
- Red-billed Pintail** *Anas erythrorhyncha*
1934 97b/w. Behaviour 1952 67-68.
- Sharp-winged Teal** *Anas flavirostris oxyptera*
1936 260.
- Chilean Teal** *Anas flavirostris flavirostris*
Behaviour 1952 175-179b/w. Winter brood 1923 62.
- Chilean Pintail** *Anas georgica spinicauda*
1939 260. Behaviour 1951 61-63b/w. Free-winged 1973 71.
- Northern Pintail** *Anas acuta*
Behaviour 1952 10-17b/w.
- Kerguelen Pintail** *Anas eatoni eatoni*
First European import 1951 155-156.
- Garganey** *Anas querquedula*
Behaviour 1952 68-72b/w.
- Baikal Teal** *Anas formosa*
1907 296-297; 1960 165-166. Bred 1959 181; 1960 69. *1928 88; *1946 167.
- Eurasian Teal** *Anas crecca crecca*
Behaviour 1952 172-175b/w. Free-flying 1973 72.
- Versicolor Teal** *Anas versicolor versicolor*
1907 317*. Bred 1936 5; 1938 105. Note 1941 142.
- Puna Teal** *Anas puna*
1939 261.
- Hottentot Teal** *Anas hottentota*
1941 142; 1946 194. Bred 1938 105.
- Marbled Teal** *Marmaronetta angustirostris*
1951 183-184b/w.
- Pink-headed Duck** *Rhodonessa caryophyllacea*
1998 41-42. Arrival 1925 299-300; 1926 325*. At Calcutta Zoo 1924 31. Generic name 1976 162. In wild and captivity 1974 47-52. Longevity, lived over ten years 1941 141. Notes 1901 132-133; 1947 211; 1968 153. One kept at Berlin Zoo 1977 176-177. "Still common in areas" 1924 30. *1932 117.
- HYBRIDS: Baer's Pochard x Redhead 1932 158. Greater Scaup x Lesser Scaup 1925 149. Red-crested Pochard x Rosybill 1931 209.

Red-crested Pochard *Netta rufina*

Bred 1931 191.

Rosybill *Netta peposaca*

Behaviour of male 1948 177-180*.

Southern Pochard *Netta erythrophthalma*

Breeding Records 1955 30.

Canvasback *Aythya valisineria*

1929 8; 1932 48; 1970 130.

Hardhead *Aythya australis*

Bred 1960 69.

Madagascan Pochard *Aythya innotata*

Bred 1932 8. Hatched in Madagascar 2012 43. Reared from wild taken eggs 2010 141.

Rediscovered 1993 52. Seen in wild 2006 187.

Baer's Pochard *Aythya baeri*

1901 134. Bred 1965 21; 2012 188.

Ferruginous Duck *Aythya nyroca*

1908 86-88. Bred 1970 130.

New Zealand Scaup *Aythya novaeseelandiae*

1933 355-356; 1940 148-149. Bred 1959 37.

Ring-necked Duck *Aythya collaris*

1913 23-24*. At London Zoo 1912 37, 142b/w. Bred 1941 142.

Tufted Duck *Aythya fuligula*

1906 280-282b/w.

Greater Scaup *Aythya marila*

1925 148-149 (Bred). *1968 68.

Lesser Scaup *Aythya affinis*

Bred 1940 67; 1957 60.

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Rearing young Arctic ducks 1942 64. Sea ducks reared from imported eggs 1940 251.

Some European 1941 123. Thoughts upon sea ducks in captivity 1944 87b/w.

Steller's Eider *Polysticta stelleri*

Threat to wild population 1995 89.

King Eider *Somateria spectabilis*

1956 58. Breeding at Slimbridge 1961 195-197b/w. Longevity 1978 232.

Common Eider *Somateria mollissima*

Bred 1898 198. Experiences with 1958 169-173. Free-winged 1973 71. In captivity

1899 115-116; 1946 173-180b/w. Rearing from imported eggs 1961 203.

Harlequin Duck *Histrionicus histrionicus*

1909 55; 1941 125-128.

Velvet Scoter *Melanitta fusca*

In captivity 1938 129. Observed inland 1925 158.

Common Scoter *Melanitta nigra*

1911 62-63b/w.

Long-tailed Duck *Clangula hyemalis*

Breeding 1972 1-4b/w. Eclipse plumage 1948 188-194. Notes on moult 1949 59-62.

Bufflehead *Bucephala albeola*

Notes on rearing 1971 58-65b/w.

Common Goldeneye *Bucephala clangula*

1914 160-161b/w. Bred 1909 37-38; 1957 60. In captivity 1947 217-223b/w.

Barrow's Goldeneye *Bucephala islandica*

In captivity 1939 100-101 (Bred). *1939 60.

SAWBILLS

Experiences with keeping 1966 48b/w.

HYBRIDS: Red-breasted Merganser x Goosander 1955 29.

Smew *Mergellus albellus*

1905 120-124. Bred 1957 196-197. Breeding habits in captivity 1939 96-99. Eggs 1905 170. Note 1966 48-50b/w.

Hooded Merganser *Lophodytes cucullatus*

Laid 1960 70. Rearing 1956 181-182; 1962 166-167; 1964 182-184; 1971 58-65b/w.

Auckland Islands Merganser *Mergus australis*

1940 49.

Goosander *Mergus merganser*

Bred 1957 60; 1966 48-50b/w. Note 1900 10-11 (*M. m. orientalis*).

Red-breasted Merganser *Mergus serrator*

1914 319-320b/w; 1966 48-50. At Lilford 1944 86. Bred 1955 30. Hand-rearing 1939 103-104. Reared from wild eggs 1932 47.

Scaly-sided Merganser *Mergus squamatus*

Numbers reduced 1996 42.

Black-headed Duck *Heteronetta atricapilla*

Bred at Slimbridge 1977 171. Hand-raising from wild eggs 1974 165-168b/w.

Oxyura

1943 73.

Ruddy Duck *Oxyura jamaicensis*

1974 132-135b/w. Bred 1947 216. Display and breeding 1938 104-105. Feral population 1976 112. Incubation period 1961 202. Introduced 1987 238. Mutation 1999 113*. Rearing 1974 237. Threat to White-headed Duck 1993 122-123; 1994 177. UK cull 1999 43.

Lake Duck *Oxyura vittata*

Bred 1968 228.

Blue-billed Duck *Oxyura australis*

1980 44-45. Rearing 1980 84.

Maccoa Duck *Oxyura maccoa*

1965 16-20b/w. Bred 1975 53.

White-headed Duck *Oxyura leucocephala*

Bred 1974 74. Eggs to Hungary 1985 174. Fertile eggs laid at ten months old 1975 232. Notes on keeping 1961 160-161b/w. Threat from Ruddy Duck 1993 122-123.

Musk Duck *Biziura lobata*

1910 94-95b/w; 1939 84-85; 1946 181-182. Newly imported pair 1939 107-109. Rearing 1980 83-84b/w.

MEGAPODES *Megapodiidae*

1930 319b/w.

Australian Brushturkey *Alectura lathamii*

1904 160-163; 1931 137-138,167-168. Bred 1904 71; 1933 36-37; 1964 221; 1968 4. Breeding 1970 161-163. Hatched 1906 193-194. Hatching at London Zoo 1904 294-297. Nesting habits 1904 217-218; 1905 43,44,83; 1934 193-194b/w. Note 1930 321-322.

Black-billed Brushturkey *Talegalla fuscirostris*

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Malleefowl *Leipoa ocellata*

1921 19-24; 1931 197 (Been bred). Bred 1991 96. Bred in two collections 1932 120-121. Breeding 1954 130-131. Juvenile mortality 1996 93. Note 1930 320. Wild eggs hatched and reared 1968 31.

Maleo *Macrocephalon maleo*

1917 168-170. At Keswick 1931 337. Bred 2000 46; 2002 43. Call 1933 235. Note 1930 322b/w.

Moluccan Scrubfowl *Eulipoa wallacei*

Nesting ground rediscovered 1996 42.

Tabon Scrubfowl *Megapodius cumingii tabon*

Wild data 1997 114.

Orange-footed Scrubfowl *Megapodius reinwardt*

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CHACHALACAS, GUANS AND CURASSOWS *Cracidae*

Cracid Newsletter 1992 136. Cracids at Chester Zoo 1995 204. Curassows and guans 1930 294b/w. Notes on breeding of curassows and guans 1956 150. Species in Mexican collections 1977 51. The *Cracidae* 1979 210b/w. The Curassows (Management and Breeding Records) 1964 123.

Plain Chachalaca *Ortalis vetula*

At liberty in San Diego Zoo 1937 138.

Rufous-headed Chachalaca *Ortalis erythroptera*

Breeding 1990 174-177.

White-winged Guan *Penelope albipennis*

Rediscovered 1980 179. Release 2003 184-186*.

White-crested Guan *Penelope pileata*

Breeding 1956 151-152.

Blue-throated Piping Guan *Pipile cumanensis*

Note 1913 211b/w.

Black-fronted Piping Guan *Pipile jacutinga*

2004 95-96b/w.

Wattled Guan *Aburria aburri*

Bred 1977 52.

Sickle-winged Guan *Chamaepetes goudotii*

Bred 1977 52.

Highland Guan *Penelopina nigra*

Note 1975 231.

Horned Guan *Oreophasis derbianus*

1975 231; 1977 51 (Reared from wild eggs). Status 1984 179.

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Yarrell's Curassow *Crax carunculata* Bred 1967 41 (= this species?).

HYBRIDS: *Crax hecki* (Now considered to be female plumage of barred morph of Great Curassow) x Wattled Curassow 1908 348; 1909 23-30b/w. Razor-billed Curassow x Blue-billed Curassow 1964 128.

Nocturnal Curassow *Nothocrax urumutum*

Bred 1977 52.

Crestless Curassow *Mitu tomentosum*

Bred 1975 74; 1977 52.

Razor-billed Curassow *Mitu tuberosum*

Breeding at Antwerp Zoo 1956 150-151; 1964 128-129. Hatched 1942 58. Laid at liberty 1928 4.

Northern Helmeted Curassow *Pauxi pauxi*

1909 329; 1975 195-196b/w (Bred). Bred 1977 51.

Horned Curassow *Pauxi unicornis*

Breeding 1998 152-156.

Great Curassow *Crax rubra*

Bred 1977 52. Rediscovered 1992 136 (*C. r. griscomi*).

Yellow-knobbed Curassow *Crax daubentoni*

Booming display 1979 108. Bred 1977 52.

Black Curassow *Crax alector*

Bred 1975 74.

Wattled Curassow *Crax globulosa*

Bred 1977 52. Early Breeding Record 1926 81.

Bare-faced Curassow *Crax fasciolata*

Banded Curassow (*C. f. sclateri*) 1933 136 (Bred). Bred 1958 31; 1970 24; 1975 74.

Breeding at Chester Zoo (*C. f. sclateri*) 1966 168-169b/w. Breeding at Exmoor Zoo

2008 84-89*b/w.

Red-billed Curassow *Crax blumenbachii*

1964 128-129 (Bred). Bred at Chester Zoo 2006 45.

GUINEAFOWL *Numididae*

1931 13. Of Gambia 1923 169. Request for information 1983 186.

HYBRIDS: 1929 255.

Helmeted Guineafowl *Numida meleagris*

1923 169-170. Breeding the Abyssinian Helmeted Guineafowl 1929 3-4.

Kenya Crested Guineafowl *Guttera pucherani pucherani*

Bred 1940 6; 1950 186. Breeding 1912 35-37.

Verreaux's Crested Guineafowl *Guttera pucherani verreauxi*

1907 365-368b/w; 1923 170-171. Bred 1991 12. Breeding 1996 12-14. Breeding Record 1933 135-136.

Vulturine Guineafowl *Acryllium vulturinum*

1915 297-298b/w; 1931 16b/w. Bred 1929 4; 1933 427. Breeding 1969 24-26b/w (Breeding Records). Forty reared 1963 257. Reared to six weeks 1931 57.

NEW WORLD QUAIL *Odontophoridae*

Stone Partridge *Ptilopachus petrosus*

1910 179,275-276; 1923 166-167. Bred 1964 178.

Dendrortyx

1961 13.

Long-tailed Wood Partridge *Dendrortyx macroura*

Bred 1977 51.

AMERICAN QUAIL

Hatching Plumbeous Quail 1922 140. Quails 1912 78; 1930 50; 1979 216b/w. Thoughts on the dietary requirements and keeping and breeding 2012 145-149.

HYBRIDS: 1918 111; 1930 64; 1961 12; 1962 15. Scaled Quail x Gambel's Quail 1953 105.

Mountain Quail *Oreortyx pictus*

1961 14-15. Breeding 1938 275.

Scaled Quail *Callipepla squamata*

Bred 1906 117-118; 1913 39-40. Note 1961 17-18. Serious decline 2001 49. B/w 1979 219.

Elegant Quail *Callipepla douglasii*

Bred 1912 342-343; 1947 163. Note 1961 16-17.

Californian Quail *Callipepla californica*

1909 145-147b/w; 1964 1-2*. Bred 1901 81; 1902 136-140b/w, 148; 1927 87-88; 1937 307. Cock brooding 1930 274-277. Introduced to Tahiti 1940 169. Note 1961 15-16. B/w 1979 219.

Gambel's Quail *Callipepla gambelii*

Bred 1920 193; 1921 107. Note 1961 16. B/w 1979 218.

Banded Quail *Philortyx fasciatus*

Nesting of American Barred Partridge (Eggs) 1928 46-47. Note 1961 18.

Colinus

1962 15.

Northern Bobwhite *Colinus virginianus*

American Bobwhite 1906 164-167. Behavioural aspects 1975 163-168b/w; 1979 218b/w. Serious decline 2001 49. *C. v. cubanensis*: Breeding Cuban Colin 1911 369. Breeding Cuban Tree Quail 1931 67-69. *C. v. pectoralis*: Breeding Mexican Black-breasted Quail 1918 114-116b/w. *C. v. ridgwayi* 1984 123.

Yucatan Bobwhite *Colinus nigrogularis*

Bred 1912 343.

Spot-bellied Bobwhite *Colinus leucopogon*

Bred 1911 5.

Odontophorus

1962 17.

Marbled Wood Quail *Odontophorus gujanensis*

Bred 1930 25. Breeding Record 1933 136.

Spot-winged Wood Quail *Odontophorus capueira*

Bred 1964 178; 1966 28. Observations on breeding 1970 1-2*.

Singing Quail *Dactylortyx thoracicus*

1962 18.

Montezuma Quail *Cyrtonyx montezumae*

1962 18-19. Bred 1918 111-113. Dietary when breeding 2012 6-118.

Ocellated Quail *Cyrtonyx ocellatus*

1962 19.

Tawny-faced Quail *Rhynchortyx cinctus*

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1899 104-107; 1907 69-72. Life of Moses 1943 33-39. Nesting habits 1907 376.

Great Crested Grebe *Podiceps cristatus*

1899 103-104; 1907 65-68b/w. Studies 1955 3-13b/w, 93-102b/w, 131-146b/w, 181-201b/w, 235-251b/w, 294-316b/w. The inquiry 1933 28-29.

Black-necked Grebe *Podiceps nigricollis*

1899 104; 1907 68-69; 1956 155-157.

Colombian Grebe *Podiceps andinus*

Gravely endangered 1984 125.

Hooded Grebe *Podiceps gallardoi*

Endangered 1985 175.

FLAMINGOS *Phoenicopteridae*

1914 287b/w*. At Berlin Zoo 1975 170. At Whipsnade 1998 100. Breeding 1977 108. Breeding and management at Chester Zoo 1989 51b/w. Breeding at Slimbridge (Summary of species and numbers reared) 1973 84. Colour feeding 1960 48. Escapee recaptured 1910 101. Hardiness 1922 26. Hatched at Basle Zoo 1958 174. Keeping and breeding at Slimbridge 1970 18b/w. New husbandry guidelines 2005 183. New ration for 1959 108b/w. Plumage fungal infections 1973 163b/w. Soda extraction threat 1994 107. Specialist group 2006 46.

Greater Flamingo *Phoenicopterus roseus*

1975 170-171b/w. Breeding 2006 71-74*. Breeding at Berlin Zoo 1963 254. Rescue operation 1964 33. Successful breeding in a small colony 1995 52-57.

American Flamingo *Phoenicopterus ruber*

Best results in sixteen years 1999 96. Bred 1970 19-20. Breeding 1939 363-365. Early weaning of hand-reared 1996 15-17. Eggs collected from Hialeah racecourse 2002 193. New lagoon exhibit 2003 94.

Chilean Flamingo *Phoenicopterus chilensis*

Aged 2008 (1)ibc. Bred 1965 190. Breeding at Berlin Zoo 1975 170-171b/w. Egg management 1995 30. Longevity, fifty-one years old 1999 45. Notes on the Argentine Flamingo 1934 80-82.

Lesser Flamingo *Phoeniconaias minor*

1914 287-288b/w*. Bred 1999 45. Breeding 1997 175-181b/w*; 2000 126-128b/w. Health monitoring of wild population 2005 143. Longevity 2004 46, 2013 142, 2014 39. Problems in the wild 2006 187. Prolific breeders 2006 187.

Andean Flamingo *Phoenicoparrus andinus*

Bred 1970 20b/w; 1999 96. Breeding at Berlin Zoo 1976 176.

James's Flamingo *Phoenicoparrus jamesi*

Expedition to collect 1960 25.

STORKS *Ciconiidae*

Reflections on 1955 202.

HYBRIDS: Intergeneric hybrid 1943 141-144b/w (Painted Stork x Lesser Adjutant Stork).

Wood Stork *Mycteria americana*

Breeding Record 1934 321.

Milky Stork *Mycteria cinerea*

1990 188. Twenty-five bred 1996 91.

Yellow-billed Stork *Mycteria ibis*

1995 80.

Painted Stork *Mycteria leucocephala*

Colour development 1919 140-141b/w; 1966 123. Hatched in large numbers 2008 186.

Asian Openbill *Anastomus oscitans*

Bred 2001 142. "Shell Ibis" 1916 264. B/w 1919 139.

African Openbill *Anastomus lamelligerus*

Bred 2001 142. *2010 25.

Black Stork *Ciconia nigra*

Being hand-reared 2012 188.

Abdim's Stork *Ciconia abdimii*

Bred 1995 135.

Woolly-necked Stork *Ciconia episcopus*

Bred 1998 93.

Storm's Stork *Ciconia stormi*

Bred 2001 185. Breeding 2004 46-47. Nesting in Thailand 1988 108.

White Stork *Ciconia ciconia*

1902 10; 1911 40. "Agrippa" 1913 301-302. Bred 1903 183; 1968 62; 1975 40;

Hatched 1911 241; 1974 161. Incubation period 1929 249. Wild 1990 105-114.

Oriental Stork *Ciconia boyciana*

Captive management 1985 92-101b/w; 1988 108. Keeping 1982 127-128b/w.

Longevity, thirty years 1963 254. Population census 1965 134. Possible reintroduction

1996 92. Returned to Korea 1998 140.

Saddle-billed Stork *Ephippiorhynchus senegalensis*

1927 209. First world breeding 2006 92. Reproduction and development 2010 100-108*.

Jabiru *Jabiru mycteria*

1920 114b/w. Captive status 2010 45.

Lesser Adjutant *Leptoptilos javanicus*

2000 46. Bred at the Bronx Zoo 2004 45.

Greater Adjutant *Leptoptilos dubius*

Population decline 1991 41.

Marabou Stork *Leptoptilos crumenifer*

Breeding 2012 83-88. Longevity 1968 102. Preliminary findings on reproduction of 2005 56-63b/w.

IBISES AND SPOONBILLS *Threskiornithidae*

Captive breeding programme for endangered species 1985 117. Sun-bathing behaviour 1982 96b/w.

HYBRIDS: American White Ibis x Sacred Ibis 1933 104. American White Ibis x Straw-necked Ibis 1966 29. Black-headed Ibis x Spoonbill *Platalea spp.* 1933 104.

Black-headed Ibis x Straw-necked Ibis 1970 204. Roseate Spoonbill x Scarlet Ibis 1973 143 (Sitting). Straw-necked Ibis x Black-headed Ibis 1913 290 (Hatched).

Sacred Ibis *Threskiornis aethiopicus*

1906 275-276b/w; 1921 106-107 (Hatched). Escapee in UK 2002 143. Population explosion 1992 86.

Blue-eyed Ibis *Threskiornis bernieri*

Hatched 2007 177.

Black-headed Ibis *Threskiornis melanocephalus*

Bred 1951 65; 1970 204. Notes 1917 146. Victim of fashion 1908 178.

Red-naped Ibis *Pseudibis papillosa*

1908 44.

Giant Ibis *Pseudibis gigantea*

New population found 2003 91. Rediscovered 1994 54.

Northern Bald Ibis *Geronticus eremita*

Bred 1958 175. Colony management 1993 95-96. Hand-reared 1966 127. Mysterious wild deaths 1996 93. Tracking 2007 187.

Southern Bald Ibis *Geronticus calvus*

Bred 1998 93; 2001 142. Breeding at Exmoor Zoo 2014 33-38. Hand-reared 2002 97.

Crested Ibis *Nipponia nippon*

Discovered in China 1982 123. Last Japanese bird died twenty-six years old 1996 42 (Longevity). Note 1982 172. Project 1987 112.

Hadada Ibis *Bostrychia hagedash*

1927 208-209. Breeding 1993 52-53.

Buff-necked Ibis *Theristicus caudatus*

Breeding at Blackbrook Zoological Park 2012 1-5*.

Black-faced Ibis *Theristicus melanopis*

1917 146-146b/w (Bred); 2002 110-112b/w.

American White Ibis *Eudocimus albus*

Bred 1903 111. Note 1968 62b/w.

Scarlet Ibis *Eudocimus ruber*

Attempted introduction to Florida 1968 72. Bred 1968 220; 1972 29; 1975 39. Breeding 1969 165-167b/w; 1991 25-27b/w; 2002 165-169*. Colour in confinement 1921 75,95. Hand-rearing 1983 215-217; 1988 96-100. Partially reared Sacred Ibis 2002 59-62.

Glossy Ibis *Plegadis falcinellus*

1915 112-113; 1917 42-43. Bred 1900 185. Breeding Record 1934 321. Occurrence in Ireland 1906 363.

White-faced Ibis *Plegadis chihi*

Hatched 1968 220.

Puna Ibis *Plegadis ridgwayi*

Hand-rearing 1999 65-72.

Madagascan Crested Ibis *Lophotibis cristata*

2001 142. Bred 2002 90; 2003 89.

Eurasian Spoonbill *Platalea leucorodia*

1918 65-67b/w; 1919 5-6. Bred 1974 198; 1993 67.

Black-faced Spoonbill *Platalea minor*

Population decline 1991 41.

African Spoonbill *Platalea alba*

Bred 2002 97. Breeding 1993 66-71b/w.

Roseate Spoonbill *Platalea ajaja*

Hand-rearing 1979 23-25.

HERONS, BITTERNS AND EGRETS *Ardeidae*

BITTERNS AND HERONS

1896 1; 1902 115; 1919 85b/w.

HYBRIDS: Black-crowned Night Heron x Little Egret 1939 132. Nankeen Night Heron x Great Egret 1949 181.

Boat-billed Heron *Cochlearius cochlearius*

Breeding at Berlin Zoo 1938 101-102. Breeding Record 1968 220. Notes 1924 163-166.

Zigzag Heron *Zebrius undulatus*

2000 49-50.

European Bittern *Botaurus stellaris*

1896 1-2. Breeding in Norfolk 1918 56-58b/w. Captive notes 1982 124-125. Notes 1919 6-7; 1920 104-106; 1922 39-40.

American Bittern *Botaurus lentiginosus*

In captivity 1916 88-90. Note 1918 58.

Von Schrenck's Bittern *Ixobrychus eurhythmus*

Wild data 1997 115.

Black-capped Night Heron *Nycticorax nycticorax*

At liberty in Edinburgh Zoo 1964 227; 1980 184-185. Bred 1934 191. Notes on hand-rearing 1993 198-202. Remarks 1922 92-93.

Nankeen Night Heron *Nycticorax caledonicus*

Bred 1976 217 (*N. c. manillensis*). HYBRIDS: 1956 40.

Yellow-crowned Night Heron *Nyctanassa violacea*

1930 132-134.

Green Heron *Butorides virescens*

1930 151-152.

Javan Pond Heron *Ardeola speciosa*

World first breeding 2004 92.

Western Cattle Egret *Bubulcus ibis*

Bred 2002 97. Breeding 1964 21-22; 1964 222-223; 1966 45-46. Buff-backed Heron 1920 138-140. Liberty 1930 120,248; 1930 44-45 (Hatched). Note 1968 62.

Grey Heron *Ardea cinerea*

"British Birds": Report on Heronries reviewed 1929 167. Note 1979 169.

Great Blue Heron *Ardea herodias*

HYBRIDS: Sub-specific hybrid 1933 104.

Purple Heron *Ardea purpurea*

1896 1-4.

Great Egret *Ardea alba*

1902 117. Eating sparrows 1923 173-174.

Capped Heron *Ptilerodius pileatus*

Bred 1972 68. Display 1931 250.

EGRETS

1902 117; 1928 68. Breeding for plumes 1903 370. Curious attitudes 1919 46. Farming plumes 1968 91. Fashion victims 1908 171. Plumage trade 1920 18b/w. Plumes 1913 318. Plumes and the ladies 1902 115.

Intermediate Egret *Egretta intermedia*

1902 118. Bred 2002 97 (Yellow-billed Egret *E. i. brachyrhyncha*).

Little Blue Heron *Egretta caerulea*

1930 152.

Snowy Egret *Egretta thula*
1932 186-187.

Little Egret *Egretta garzetta*

1896 17-18; 1902 118; 1913 238-242b/w; 1917 323-327b/w. Bred 1975 39.

HAMERKOP *Scopidae*

Hamerkop *Scopus umbretta*

1926 79-80b/w. Bred 1910 335b/w; 1911 212. Bred at Colchester Zoo 2006 47.

Breeding at Berlin Zoo 1938 102-103. Unique fishing techniques and nest building behaviour 2000 56-61.

SHOEBILL *Balaenicipitidae*

Shoebill *Balaeniceps rex*

1908 191-201b/w (Correction 295). Early records in captivity 1903 241; 1904 138;

1912 285; 1926 225. Programme for increasing numbers 1998 141.

PELICANS *Pelecanidae*

1927 215. Breeding Records 1964 220. Eating pigeons 1933 427. Longevity Records 2001 139. Of the world 2011 154 b/w*.

HYBRIDS: Dalmation Pelican x Pink-backed Pelican 1968 23.

Great White Pelican *Pelecanus onocrotalus*

A derelict pelican 1915 339b/w. Bred 1995 30. Breeding Records 1964 220. Hand-reared 1968 23.

Pink-backed Pelican *Pelecanus rufescens*

Breeding 1997 80-84; 2007 104-118*. Twenty-six bred 2004 182.

Dalmatian Pelican *Pelecanus crispus*

Breeding 1982 33-35b/w. Laid 2000 75. Second brood 1983 151-152.

Australian Pelican *Pelecanus conspicillatus*

Longevity, twenty-six years in captivity 1951 31.

American Pelican *Pelecanus erythrorhynchos*

1918 109-110b/w, 134-135b/w. Bred at West Berlin Zoo 1964 219-220. Bred twice at Washington Zoo 1930 335; 1933 105. Care and growth in captivity 1976 139-142.

Eating moorhen 1999 45.

FRIGATEBIRDS *Fregatidae*

Frigatebird Post of the Pacific 1918 283-285. Longevity, eight years in captivity 1937 137.

GANNETS AND BOOBIES *Sulidae*

Northern Gannet *Morus bassanus*

Bred 1961 140. Breeding Record 1965 33-34. "Chick now quite large" 1959 137. Long-distance ringing recovery 1974 118. Notes on in confinement 1914 312-313.

Red-footed Booby *Sula sula*

Wild caught chick hand-reared 1961 109.



Galapagos Flightless Cormorant *Phalacrocorax harrisi* by Gregory Guida

CORMORANTS AND SHAGS *Phalacrocoracidae*

Cormorants of New Zealand 1934 197.

Flightless Cormorant *Phalacrocorax harrisi*

1933 33-34b/w. Nested at Washington Zoo 1937 115.

Bank Cormorant *Phalacrocorax neglectus*

2013 131.

Australian Pied Cormorant *Phalacrocorax varius*

1934 145.

Great Cormorant *Phalacrocorax carbo*

Albino 1900 88. Bred 1961 140. Breeding Record 1933 105. Killing young ducks 1933 398,427. Left the nest 1960 124. Notes 1925 104-106b/w.

White-breasted Cormorant *Phalacrocorax lucidus*

Bred 1994 108.

Socotra Cormorant *Phalacrocorax nigrogularis*

Population monitoring 1996 93. Captive breeding population 2004 185.

Imperial Shag *Leucocarbo atriceps*

Bred 1991 96-97.

NEW WORLD VULTURES *Cathartidae*

1927 165.

Turkey Vulture *Cathartes aura*

Bred 2012 50. Hand-rearing 1997 32.

Black Vulture *Coragyps atratus*

2000 51. Breeding and hand-rearing 1981 212-215. Breeding Record 1933 85. Hand-reared 1963 254. Hatched 1920 115-116.

King Vulture *Sarcoramphus papa*

Bred 1961 141; 1968 104; 1982 150. Breeding 1968 17b/w. Seventeenth chick hatched 2005 184.

California Condor *Gymnogyps californianus*

1971 148; 1981 60; 2000 48; 2004 46. At Washington Zoo 1937 115. Breeding 1989 104-105. Extinct in the wild 1987 175. Hatched 1983 186. Hundredth reared 2001 94. Reintroduction 1995 88. Release 1993 50. Released bird found dead 1993 105. Successful breeding season 1992 196. Wild Census 1967 130.

Andean Condor *Vultur gryphus*

Artificial incubation and rearing 1960 154. Bred 1933 459; 1971 76. Breeding at San Diego Zoo 1954 125-128b/w. Condor cliffs at Chester Zoo 1997 1-3b/w. Hatched 1896 77. Rearing in captivity 1953 22-23b/w. Sexable on hatching 1952 95. Longevity, sixty-four years old 1956 196. Young died with overburden of stones in stomach 1968 23.

SECRETARYBIRD *Sagittariidae*

Secretarybird *Sagittarius serpentarius*

1912 105-108b/w, 109-111; 1917 334-337b/w; 1927 165-166; 1931 183-185. Rearing 1988 117-120b/w.

OSPREY *Pandionidae*

Western Osprey *Pandion haliaetus*

1903 269-273b/w. Breeding in Scotland 1959 183-184; 1971 150; 1972 179; 1980 180.
Status 1992 40.

KITES, HAWKS, VULTURES AND EAGLES *Accipitridae*

At East Berlin Zoo 1987 162,102b/w. At Wassenaar Zoo 1982 150. Birds of Prey, treatment in captivity 1910 340,341. Birds of Prey 1927 162b/w,177b/w. Birds of Prey as companions 1949 81. Bird of Prey Working Group 2005 90. Cornell University breeding program 1973 141. Duration of life 1924 32. Feeding 1968 142. Feeding captive birds of prey 1981 256. Free lofting versus tethering for birds used in demonstrations 2013 165. Hawks 1911 275. Imping - a practical way to repair feathers 1989 26b/w. Raptor rehabilitation 1981 266b/w. Renewal of claws and bill tips in Birds of Prey 1928 198,252. Special Birds of Prey Issues of Avicultural Magazine: 1949 May/June; 1981 October/December. UK First Breeding Records 1996 166.

VULTURES

Diclofenac usage in Europe 2014 40. Drug sale and production halted 2006 91. Kolbe's Vulture 1913 153-154 (Hatched). Rapid decline in some species 2000 137. Recovery programme 2005 36-38. Sociable Vulture "bred in London" 1943 117. Some Indian 1918 49. South African Vulture unit 2006 45. Threat to African 2007 (4)jbc. Vultures 1919 101b/w. Vultures in Africa 1918 52. Vultures in captivity in South Africa 1981 215b/w. West African crisis 2005 125. Workshop 2001 139.

Bearded Vulture *Gypaetus barbatus*

Breeding and hand-rearing 1981 223-231b/w. Breeding in confinement 1933 32. Breeding Record 1933 85. Kenyan rescue programme 1994 53. Reintroduction 1984 243. Two at London Zoo 1912 199.

Egyptian Vulture *Neophron percnopterus*

1993 51. Attempted re-introduction to Italy 1973 65. Bred 1980 53; 1998 44. Breeding again in Italy 1975 232. Conservation Forum 1997 139. Longevity, twenty-seven years 1972 212.

European Honey Buzzard *Pernis apivorus*

In captivity 1906 208-209.

Square-tailed Kite *Lophoictinia isura*

1906 195-196b/w.

Hooded Vulture *Necrosyrtes monachus*

Pet 1918 47-48b/w.

White-rumped Vulture *Gyps bengalensis*

Bred 1981 186. Breeding 1983 4-8b/w.

Slender-billed Vulture *Gyps tenuirostris*

Significant population found 2005 47.

Rüppell's Vulture *Gyps rueppelli*

Bred 1991 191; 1998 93. Laid 1956 125.

Griffon Vulture *Gyps fulvus*

Bred 1984 177. Bred at Colchester Zoo 2006 47. Breeding 1941 157-159b/w; 1980 61-66b/w. Breeding note 1995 171. Laid 1968 63.

Cape Vulture *Gyps coprotheres*

First parent-reared captive-bred 1997 45.

Cinereous Vulture *Aegypius monachus*

Breeding behaviour 2002 3-7b/w.

Lappet-faced Vulture *Torgos tracheliotos*

Infertile eggs 1997 32.

EAGLES

Chains for eagles 1910 256. Scenes in the life of two eagles 1925 70. Ways of 1922 93,142.

Crested Serpent Eagle *Spilornis cheela*

1914 154-159.

Philippine Eagle *Pithecophaga jefferyi*

1909 328; 1940 33-34b/w. Bred 1993 101. Census 1965 134; 1970 165.

Congo Serpent Eagle *Circaetus spectabilis*

1927 228.

Bateleur *Terathopius ecaudatus*

Bred 1977 57; 1998 164b/w. In captivity 1950 49. Longevity, fifty-five years 1924 34.

The Phoenix 1920 1-2b/w; 1921 147-149.

Papuan Eagle *Harpyopsis novaeguineae*

1951 36.

Crested Eagle *Morphnus guianensis*

Nest found 1995 87.

Harpy Eagle *Harpia harpyja*

Bred 1994 227; 2010 48. Fourteenth hatched 2002 170-171*. Hatched 1985 170.

Longevity, eighteen years old 1920 45; 1940 33b/w. Release 1998 93. B/w 1927 172.

Blyth's Hawk-Eagle *Nisaetus alboniger*

Bred 1980 53.

Ornate Hawk-Eagle *Spizaetus ornatus*

Bred 1981 184; 2007 (3)ibc.

Crowned Eagle *Stephanoaetus coronatus*

Breeding note 1996 91. Leopard of the air 1968 134-144b/w. Longevity, thirty years 1963 88.

Long-crested Eagle *Lophaetus occipitalis*

Bred at Berlin Zoo 1972 106.

Greater Spotted Eagle *Clanga clanga*

In Hertfordshire 1916 69.

Wahlberg's Eagle *Hieraetus wahlbergi*

1963 170.

Steppe Eagle *Aquila nipalensis*

Longevity, forty-one years 1928 22.

Eastern Imperial Eagle *Aquila heliaca*

Longevity, thirty-six years old 1932 47.

Golden Eagle *Aquila chrysaetos*

1927 177b/w. Bred 1972 214; 1973 141. Laid 1899 140; 1956 125; 1968 63. Longevity, forty years 1965 133.

Verreaux's Eagle *Aquila verreauxii*

Bred 1992 195.

African Hawk-Eagle *Aquila spilogaster*

Reared for release 1998 141-142.

African Goshawk *Accipiter tachiro*

Bred 2002 97.

Grey Goshawk *Accipiter novaehollandiae*

Bred 1973 35.

- Eurasian Sparrowhawk** *Accipiter nisus*
 Attacking cage-birds 1944/70. Bred 1973 63; 1974 160. Breeding attempt 1975 85-89b/w. Deregulation 1994 175. Note 1976 110.
- Northern Goshawk** *Accipiter gentilis*
 1936 112b/w. Introduced 1987 231-232.
- Western Marsh Harrier** *Circus aeruginosus*
 Hand-reared 1980 115.
- Swamp Harrier** *Circus approximans*
 1934 203-204.
- Hen Harrier** *Circus cyaneus*
 Nesting in Ireland 1918 205-207b/w.
- Montagu's Harrier** *Circus pygargus*
 Monograph 1996 186.
- Red Kite** *Milvus milvus*
 1965 70; 1979 42. Census 1980 185. Good breeding season 1994 225.
- Black Kite** *Milvus migrans*
 1917 296-299; 1949 94. Bred at London Zoo 1933 85; 1974 118.
- Whistling Eagle** *Haliaeetus spheerulus*
 HYBRIDS: Whistling Eagle x Brahminy Kite 1974 35.
- African Fish Eagle** *Haliaeetus vocifer*
 Hatched 1985 170.
- Pallas's Sea Eagle** *Haliaeetus leucorhynchus*
 1925 70-74.
- White-tailed Eagle** *Haliaeetus albicilla*
 1969 151-152, 277. Bred 1971 78. Breeding results in Sweden 1976 219. Introduced 1987 231. For release 1993 50. Nesting wild in UK 1983 185. Reintroduction 1992 136.
- Bald Eagle** *Haliaeetus leucocephalus*
 1969 145. Breeding at Flamingo Gardens and Zoological Park 2004 49-53*. Chairman's success 2007 93. Fifteen bred in nine years 1995 46. Long lived female dies 2011 138. Notes on 1981 271-272. Rehabilitation 1981 115. Status reclassified 1994 226. Success 1994 177. B/w 1975 174.
- Steller's Sea Eagle** *Haliaeetus pelagicus*
 Black Sea Eagle *H. p. niger* attempting to catch sparrows 1920 55. Longevity, thirty-six years 1972 33. Note 1938 78b/w. Steller's and Black Sea-Eagles *H. p. niger* 1949 93-96b/w.
- Grasshopper Buzzard** *Buteo swainsoni*
 Note 1963 170.
- Harris's Hawk** *Parabuteo unicinctus*
 As pigeon scarers 1994 174. Bred 1973 141.
- Black-breasted Buzzard Eagle** *Geranoaetus melanoleucus*
 Probable first breeding 2005 135.
- Swainson's Hawk** *Buteo swainsoni*
 1954 19b/w.
- Red-tailed Hawk** *Buteo jamaicensis*
 Bred 1974 233. Hatched from artificially inseminated egg 1971 148. Laid 1970 164. HYBRIDS: Common Buzzard x Red-tailed Hawk 1972 67. Red-tailed Hawk x Common Buzzard 1977 169.
- Long-legged Buzzard** *Buteo rufinus*
 Bred 1986 194.
- Common Buzzard** *Buteo buteo*
 1970 164. Bred 1971 224. Deregulation 1994 176. HYBRIDS: Common Buzzard x Red-tailed Hawk 1972 67. Red-tailed Hawk x Common Buzzard 1977 169.

Jackal Buzzard *Buteo rufofuscus*

Breeding 1907 57,190. Incubation period 1907 254. Longevity 1922 13; 1931 336. Pre-war veteran 1919 222.

BUSTARDS *Otididae*

1928 238b/w; 1983 53. An omnivorous bustard 1907 106. Commonly encountered hatching and post-hatching problems 1999 114b/w. Management in captivity 2003 1b/w. Tracking 1995 185.

Great Bustard *Otis tarda*

1897 61-63; 1904 188-191 (Hatched); 1909 184-192b/w; 1911 337; 1913 261-263b/w; 1949 1; 1981 59. An aged 1926 125-126 (Longevity, twenty-eight-and-a-half years old). At Scampston Hall 1931 128-129b/w,130-133. Efforts in breeding 1962 169-170 (Hatched); 1965 190 (Hatched). First success in Zoo breeding 1964 218-219b/w. Problems and progress in captive breeding by the Great Bustard Trust 1980 131-140b/w. Rearing in India 1963 45-48b/w. Rearing in Spain 1933 106b/w. Spanish protection 1994 228. B/w: 1911 377; 1949 1.

Kori Bustard *Ardeotis kori*

At London Zoo 1911 44b/w. Distraction display 2009 116-118b/w. Sunning behaviour at Smithsonian National Zoo Park 2007 145-152b/w. Wild 1925 313-314.

Indian Bustard *Ardeotis nigriceps*

Chick growth and development 1990 133-140b/w.

Australian Bustard *Ardeotis australis*

Display 1931 147-148.

Macqueen's Bustard *Chlamydotis macqueenii*

Reintroduced birds breeding 1996 92.

White-bellied Bustard *Eupodotis senegalensis*

1914 147. Bred 1971 76. Captive breeding 2003 107-115*.

Blue Korhaan *Eupodotis caerulescens*

1907 139-142b/w.

Buff-crested Bustard *Lophotis gindiana*

Breeding 1989 103-104; 2003 4b/w.

Southern Black Korhaan *Afrotis afra*

At London Zoo 1903 11. Bred 1971 37; 1972 68; 1993 98. Breeding 1986 61-63b/w. Hand-rearing a Black Korhaan 1977 233.

Little Bustard *Tetrax tetrax*

Breeding 1917 30-34b/w; 1931 133-134b/w. Notes 1911 57-61b/w; 1913 55-56.

SERIEMAS *Cariamidae*

1928 181.

Red-legged Seriema *Cariama cristata*

1928 181b/w; 1920 190. Behaviour 1987 242-243. Bred 1911 302b/w,340. Hand-rearing 1925 171-175. Sunning positions 1923 188-189.

Black-legged Seriema *Chunga burmeisteri*

1928 181b/w.

KAGU *Rhynochetidae*

Kagu *Rhynochetos jubatus*

1905 280-282b/w; 1907 257-258b/w; 1908 119-120; 1922 74b/w; 1928 182b/w; 1930 347-348,349. Bred 1998 167b/w; 2001 92; 2002 90; 2003 88. "Bred on several occasions" 1940 105. Breeding 1919 239-242 (Hatched); 1921 28,41-42 (Bred). Conservation project and breeding report 1992 197. Cooperative agreement 1998 140-141. Hatched 1965 59-60b/w,121; 1967 128-129. In various collections 1921 183; 1931 245,251. Laid 1940 66. Little known pose 1910 51-52b/w. My life with 2009 49-112*b/w. Nesting 1937 30 (Hatched). Notes 1925 276; 1958 68. Remarks about 1921 157-158. Second chick hatched 2009 160. Voice 1920 182. B/w 1955 319.

SUNBITTERN *Eurypygidae*

Sunbittern *Eurypyga helias*

1914 121-123b/w; 1928 182b/w; 1995 32,205. Bred 1965 192; 2004 91. Breeding 1989 1-4b/w; 2012 77-82*. Breeding notes 1959 137. Display and coloration 1978 150-157b/w. Hatched 2003 143. Notes 1912 254; 1968 206,208 (Breeding Records).

FLUFFTAILS *Sarothruridae*

Roosting habits 1977 111.

Red-chested Flufftail *Sarothrura rufa*

Imported 1927 26.

FINFOOTS *Heliornithidae*

African Finfoot *Podica senegalensis*

1927 214. In captivity 1905 47. Notes 1948 50-52.

Masked Finfoot *Heliopais personatus*

1907 172; 1954 39.

RAILS, GALLINULES AND COOTS *Rallidae*

1928 283b/w. British rails 1908 244,303,347; 1909 112,176,198,306. Moorhens and coots of India 1907 166,223. Some rails and gallinules 1918 21b/w.

HYBRIDS: Giant Wood Rail x Grey-necked Wood Rail (Eggs) 1926 306.

Yellow Rail *Coturnicops noveboracensis*

Breeding and behaviour 1975 133-141b/w.

Andaman Crane *Rallina canningi*

At London Zoo 1904 275.

Russet-crowned Crane *Laterallus viridis*

Breeding the Cayenne Crane *Creciscus cayennensis* (= this species?) 1937 277-278.

Rufous-sided Crane *Laterallus melanophaeus*

Breeding 1969 100. Note 1980 60.

Red-and-white Crane *Laterallus leucopyrrhus*

Bred 1980 60. Breeding 1962 179-181b/w (Correction 1963 42); 1979 63-67b/w.

Breeding notes 1997 55. Observations 1966 24-26b/w. Sitting 1969 148.

Weka *Gallirallus australis*

Breeding 1904 329-330. Breeding and behaviour of North Island Weka 1972 53-64b/w.
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Lord Howe Woodhen *Gallirallus sylvestris*

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African Rail *Rallus caerulescens*

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Lewin's Rail *Lewinia pectoralis*

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Abbott's White-throated Rail *Dryolimnas cuvieri abbotti*

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118; 1972 68; 1993 106. Breeding 1930 271-272; 1931 57; 1999 12-21*. Breeding well
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Australian Crane *Porzana fluminea*

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Chestnut Rail *Eulabeornis castaneoventris*

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Water Thick-knee *Burhinus vermiculatus*

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Spotted Thick-knee *Burhinus capensis*

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Double-striped Thick-knee *Burhinus bistriatus*

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Northern Lapwing *Vanellus vanellus*

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Long-toed Lapwing *Vanellus crassirostris*

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African Wattled Plover *Vanellus senegallus*

Bred 1909 36; 1910 335. Hatched 1933 128; 1934 162.

Banded Lapwing *Vanellus tricolor*

Bred 1934 190; 1940 31; 1949 32. Breeding 1940 246-250,317,318; 1944 118-122; 1956 219,223b/w; 1957 79. Six broods in a year 1970 36.

Masked Plover *Vanellus miles novaehollandiae*

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Ringed Plover *Charadrius hiaticula*

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Egyptian Plover *Pluvianus aegyptius*

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Comb-crested Jacana *Irediparra gallinacea*

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American Woodcock *Scolopax minor*

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Redshank *Tringa totanus*

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Double-banded Courser *Rhinoptilus africanus*

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Black Skimmer *Rynchops niger*

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Silver Gull *Chroicocephalus novaehollandiae*

Bred 1900 185; 1937 289; 1971 38. Breeding Records 1933 105. Longevity, at least twenty-eight years old 1955 42. Management of a captive colony 1992 173-177.

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At liberty 1946 55. Bred 1912 192. Catching moths 1902 228-229. Hatched and reared under bantam, hand fed 1931 202. Recorded from New Guinea 1980 52.

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AUKS

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Chestnut-bellied Sandgrouse *Pterocles exustus*

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Spotted Sandgrouse *Pterocles senegallus*

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Four-banded Sandgrouse *Pterocles quadricinctus*

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- Speckled Pigeon** *Columba guinea*
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- White-collared Pigeon** *Columba albitorques*
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- Common Wood Pigeon** *Columba palumbus*
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1929 33-36; 1923 211-214 (Wild); 1903 106-107; 1907 318-324 (Bred); 1929 206.

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1903 235-236; 1929 110-111; 1984 96-98b/w. Bred 1931 98. Breeding 1906 307-310b/w. Nesting attempts 1903 398-399; 1904 100-101; 1905 376 (Hatched).

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1907 292-297b/w; 1929 117; 1955 113b/w. Bred 1905 290; 1960 250; 1961 34. Nesting 1908 337-343 (Bred); 1909 40-45.

- Partridge Pigeon** *Geophaps smithii*
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- Wonga Pigeon** *Leucosarcia melanoleuca*
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- Common Ground Dove** *Columbina passerina*
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- Plain-breasted Ground Dove** *Columbina minuta*
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- Bare-faced Ground Dove** *Metriopelia ceciliae*
 Bred 1939 4; 1960 250; 1971 56.
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- White-tipped Dove** *Leptotila verreauxi*
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- Grey-fronted Dove** *Leptotila rufaxilla*
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- Grey-headed Dove** *Leptotila plumbeiceps*
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- Caribbean Dove** *Leptotila jamaicensis*
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- Grey-fronted Quail-Dove** *Geotrygon caniceps*
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- Nicobar Pigeon** *Caloenas nicobarica*
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At London Zoo 1913 36. Breeding 1985 129-130. Notes 1929 156-157; 1980 119. Rearing 1937 56.

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White-breasted Ground Dove *Gallicolumba jobiensis*

1923 69,82; 1929 158. Bred 1931 99,330; 1932 7; 1937 87-88. Breeding 1922 168-170. Breeding Records 1933 83.

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1929 157. At San Diego Zoo 1942 45.

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1929 160-161; 1978 111. Bred 1934 22; 1994 52. Bred for over ten years 1937 135. Breeding 1930 158-160b/w.

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1929 162-163. Bred 1937 125; 1961 142; 1974 198. Bred to second generation 1964 147-148. Breeding 1931 20-21b/w; 1980 N/L. Extraordinary cause of death 1968 151.

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Pink-spotted Fruit Dove *Ptilinopus perlatus*

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- Coroneted Fruit Dove** *Ptilinopus coronulatus*
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